

T/V Posavina

**Shoreline Cleanup Assessment Team (SCAT)
Shoreline Cleanup Recommendations
19 June 2000**

Assembled by the Shoreline Cleanup Assessment Team:

Agency	Role	Representative
U.S. Coast Guard	Federal On-Scene Coordinator	Scott Lundgren
Commonwealth of Massachusetts	State On-Scene Coordinator	Kingsley Ndi / Tim Boyle
Clean Harbors	Licensed Site Professional	Stephen Applebaum / Kris Gilson
International Tanker Owners Pollution Federation (ITOPF)	Technical Advisor for Owner and P&I Club	Karen Purnell
Polaris	Science Advisor for Owner	Andrew Martin

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Suggested Shoreline Response Cleanup Methods _____	Attachment 2
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Notes:

This is a living document, and recommendations may be modified based on the effectiveness of the various techniques as implemented under the spill-specific conditions.

Summaries provided as cleanup progresses will be incorporated into SCAT documentation.

INCIDENT NAME:	POSAVINA Oil Spill
LOCATION:	

CLEANUP RECOMMENDATION REPORTS

INTRODUCTION

These cleanup recommendation reports have been prepared for the purpose of providing guidance to the Unified Command and Operations Supervisors. The recommendations appearing in the reports represent the consensus reached amongst members of the SCAT team (*whose names appear on the individual forms*). In making these recommendations, the SCAT team has attempted to balance the need to remove as much of the contamination as is feasible against the desire to minimize damage to the environment. In all cases, the suggested clean-up methods have been chosen to enable the targets previously agreed upon by the Unified Command to be met (*as identified in the working draft of the generic guidelines for Shoreline Response Cleanup Methods – dated 15th June*).

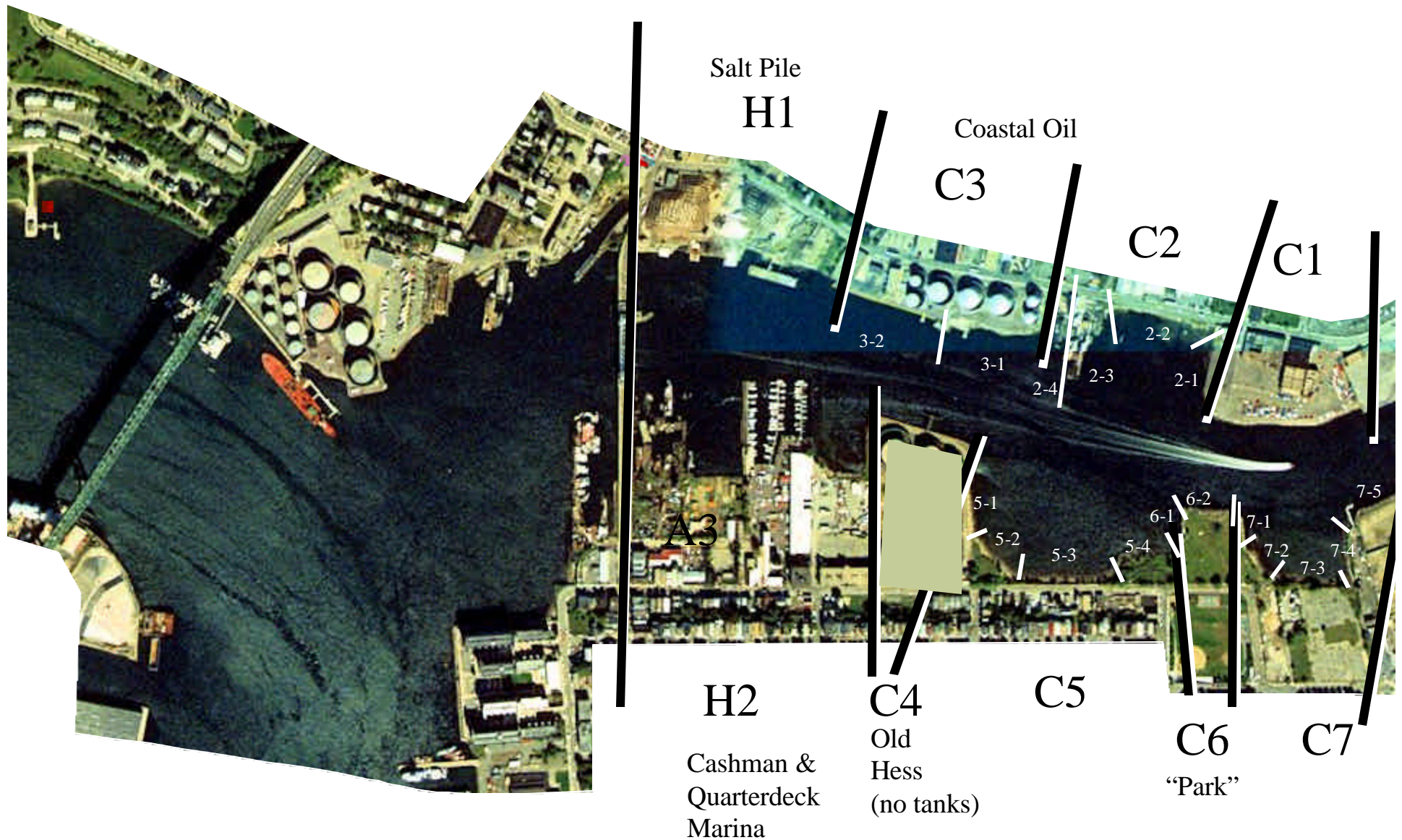
It is the intention of the SCAT team to discuss the recommendations with the Operations Manager and highlight the rationale for the suggested cleanup methods. The recommendations have been written in a manner that allows for flexibility and possible amendment according to actual operational experiences following discussion with representatives of the State, the USCG and the RP. To assist with monitoring the progress of the cleanup and facilitate early identification of problem areas, it would be helpful if the Operations Manager could provide a daily summary of progress that includes comments on problems experienced and intentions for the following day/s.

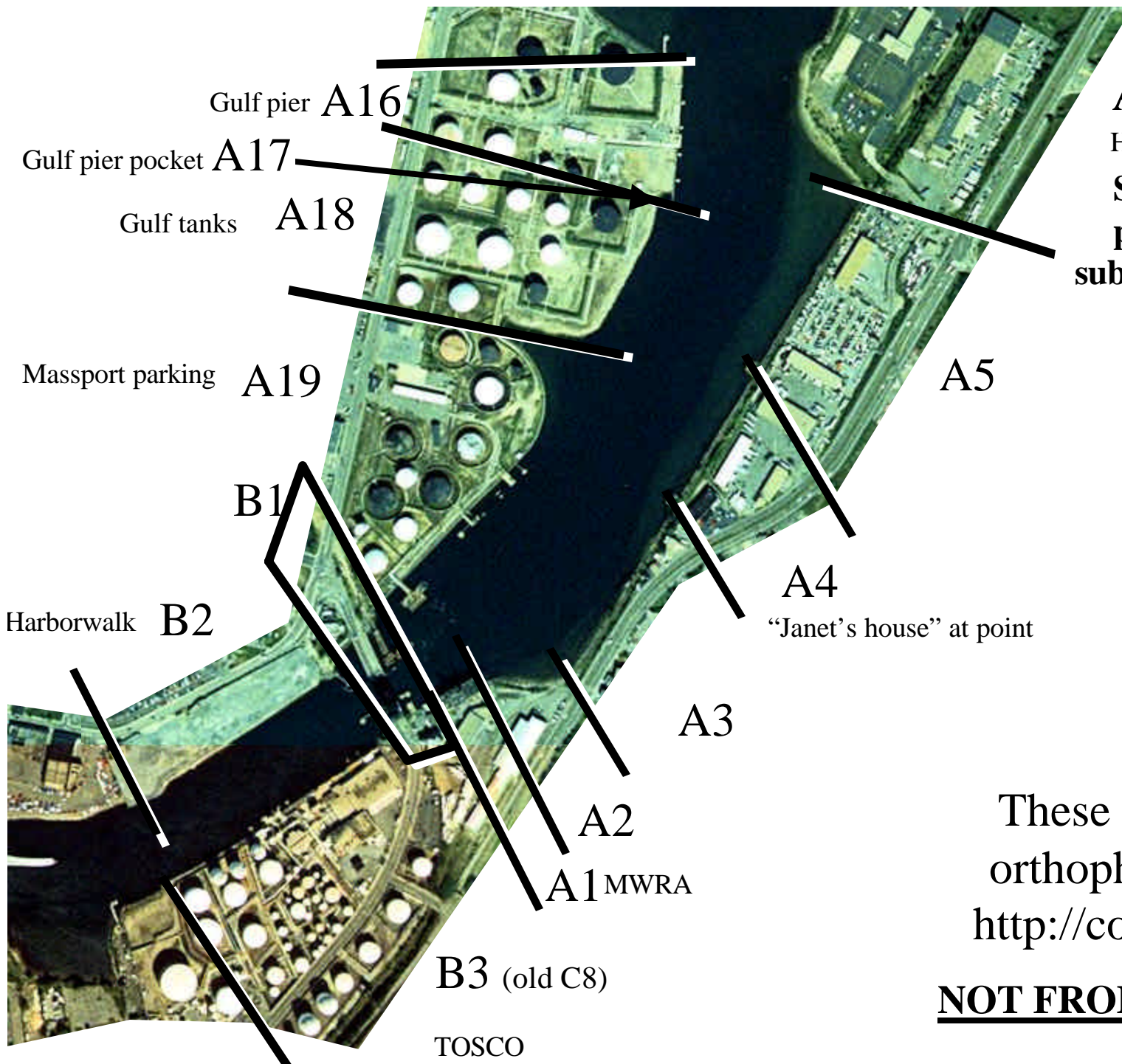
The nature of the shoreline in many places demands extra vigilance with regard to safety. Safety of the workers will be given priority and the desire to remove oil in areas that are inherently unsafe will be balanced against the risk of injury.

Suggested Shoreline Cleanup Methods

Document not currently electronically available (see Greg Challenger, Polaris). Use 6/15/00 working copy that has suggested methods based on shoreline types.

Shoreline Segments and Subsegments as of 6/16/00





A6

Hertz Rental

**See next
page for
sub-segments**

A5

A4

“Janet’s house” at point

A3

A2

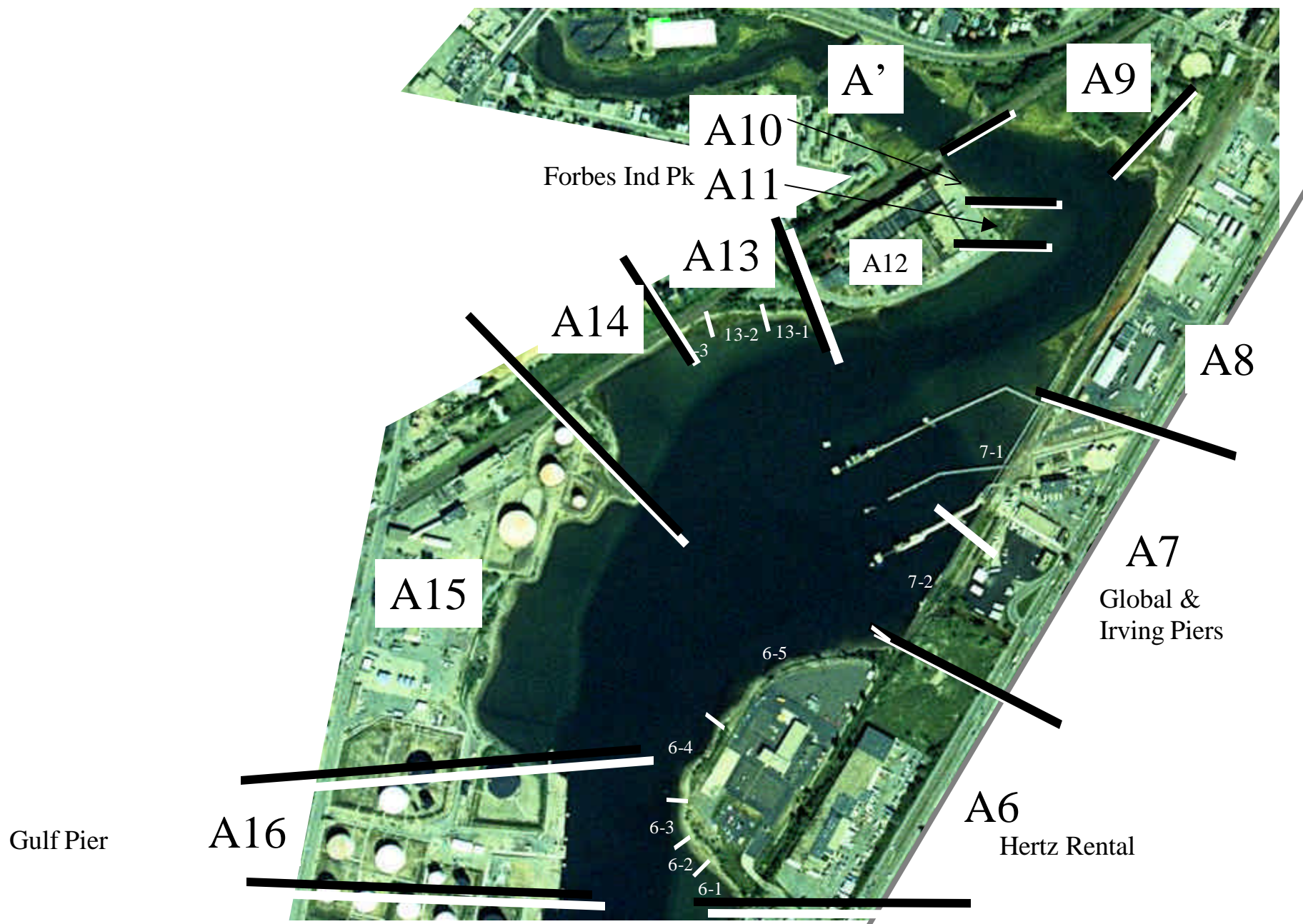
A1 MWRA

B3 (old C8)

TOSCO

These are digital
orthophotos from
<http://coast.mit.edu>

NOT FROM THE SPILL



Summary of Shoreline Recommendations for Operations from SCAT
See notes below for important details

Data	Main shoreline cleanup recommendation	Total	<p>NOTES: The primary cleanup recommendation may be used in conjunction with several other techniques. See detailed cleanup recommendation reports completed on a segment/subsegment basis, particularly for those with multiple recommendations.</p> <p>Pressure washing may be limited by the detailed cleanup recommendation to certain temperatures, pressures, or tidal cycles (particularly in the presence of Rockweed/Fucus/Ascophyllum).</p>
Cleanup recommendations by linear shoreline distance (in meters)	Debris removal (spot application)	1074	
	Deluge	124	
	Manual agitation	100	
	Manual removal	567	
	Manual removal (spot application)	280	
	Monitor	620	
	Monitor (restrict foot access)	913	
	Monitor (unsafe conditions)	130	
	Multiple	2252	
	Pending review with Ops, LSP, and/or SOSC	358	
	Pressure wash	1534	
	Pressure wash (spot application)	751	
	Snare	604	
Sum of Est Length (in Meters, from Marplot)2	Debris removal (spot application)	11.54%	
	Deluge	1.33%	
	Manual agitation	1.07%	
	Manual removal	6.09%	
	Manual removal (spot application)	3.01%	
	Monitor	6.66%	
	Monitor (restrict foot access)	9.81%	
	Monitor (unsafe conditions)	1.40%	
	Multiple	24.20%	
	Pending review with Ops, LSP, and/or SOSC	3.85%	
	Pressure wash	16.48%	
	Pressure wash (spot application)	8.07%	
	Snare	6.49%	
Total Cleanup recommendations by linear shoreline distance (in meters)		9307	
Total Sum of Est Length (in Meters, from Marplot)2		100.00%	

Summary of Segment/Subsegment Locations, Segment Size, Recommended Action, and Current Status

Code	Name	From	To	Est Length (in Meters, from Marplot)	Main shoreline cleanup recommendation	Multiple	Current Status	Date of initial assessment	Date of final assessment	Date begin treatment	Date end treatment	Date accept ed by SCAT	LSP signoff for IRA actions
A*	Estuary	Above railroad		N/A	Monitor (restrict foot access)		Recommendation						
A1	MWRA Plant	Bridge end of plant	Upstream end of plant	124	Pressure wash		Recommendation						
A2	Cobble & sand beach east of MWRA	MWRA plant	First Billboard	149	Multiple	Debris removal and selective pressure wash	Recommendation						
A3	Billboard to Pumphouse	First Billboard	Point with concrete block pumphouse "Janet's house"	258	Multiple	Debris removal and selective pressure wash	Recommendation						
A4	East of Janet's Pumphouse	Point with pumphouse	Next outcrop with buoy	226	Multiple	Debris removal and selective pressure wash	Recommendation						
A5	Second outcrop (red buoy) to Hertz peninsula	Outcrop with buoy	Corner at begin Hertz outcrop (discharge pipe with water flow)	285	Pressure wash (spot application)		Recommendation						
A6	Hertz Peninsula	Corner at begin Hertz outcrop (discharge pipe with water flow)	1st of three finger piers (Irving Oil)										
A6-1	Less oiled corner			100	Manual agitation		Recommendation						
A6-2	Heavy oiled face			70	Multiple	Sediment removal in upper, manual agitation in lower, pressure wash large boulders	Recommendation						
A6-3	Similarly oiled corner			90	Multiple	Sediment removal in upper, manual agitation in lower, pressure wash large boulders	Recommendation						
A6-4	Piling section			115	Snare		Recommendation						
A6-5	Trace on north face			200	Debris removal (spot application)		Recommendation						
A7	All finger piers (Irving, 2 Global)	Irving Pier	Last Global piers	359	Multiple	Gental matted debris removal from marsh grass, pressure wash riprap	Recommendation						
A8	Beyond piers to apex of turn in creek	Final pier	Apex of turn in creek	462	Monitor (restrict foot access)		Recommendation						
A9	Eastern stretch of creek (vegetated)	Apex of turn	Railroad tresle	204	Monitor (restrict foot access)		Recommendation						
A10	Tresle to point of (unoiiled) marsh at Forbes	Tresle	Point of marsh east of Forbes	128	Monitor (restrict foot access)		Recommendation						
A11	Point of marsh to wood bulkhead	Point of marsh (unoiiled)	Wood bulkhead in front of Forbes (includes slightly oiled marsh)	63	Monitor (restrict foot access)		Recommendation						
A12	Wood Forbes bulkhead	Upstream bulkhead end	Downstream bulkhead end & debris behind deteriorated bulkhead	295	Multiple	Snare, pressure wash	Recommendation						
A13	Forbes area marsh and cobble	Downstream end of bulkhead	End of marsh near rail tracks and signal pole				Recommendation						
A13-1	Cobble sub-section			78	Manual removal		Recommendation						
A13-2	Heavy oiled marsh sub-section			64	Snare		Recommendation						
A13-3	Lightly oiled sub-section			56	Monitor (restrict foot access)		Recommendation						
A14	Rail pole by tracks to Outcrop	Rail signal pole	Outcrop upstream of Gulf	343	Debris removal (spot application)		Recommendation						
A15	Oucrop to Gulf terminal	Outcrop upstream of Gulf	Upstream end of Gulf Pier	531	Debris removal (spot application)		Recommendation						
A16	Gulf terminal sheet pile face	Upstream end of Gulf Pier sheet pile	Downstream end of Gulf Pier sheet pile	196	Pressure wash		Recommendation						
A17	Heavy patch behind Gulf sheet pile	Small area behind Gulf Pier sheet pile		23	Multiple	Snare, pressure wash, deluge (test of deluge effectiveness planned)	Recommendation						
A18	Riprap and wood retaining wall in front of Gulf tank farm	Downstream of oiled area behind Gulf sheet pile	Outfall between Gulf tank farm and Massport parking area	358	Pending review with Ops, LSP, and/or SOSOC		Recommendation						
A19	Massport parking area	Oufall between Gulf tank farm and Massport Parking Area	End of Massport facility concrete border	525	Pressure wash		Recommendation						
B1	Entire Chelsea Street Bridge	Chelsea Side (including abutments & vicinity)	East Boston Side (including abutments & vicinity)	150	Pressure wash (spot application)		Recommendation						
B2	Bulkhead opposite Tosco	Chelsea Street Bridge	Final sheetpile section (leaning slightly toward water)	353	Multiple	Snare, pressure wash	Recommendation						

Summary of Segment/Subsegment Locations, Segment Size, Recommended Action, and Current Status

Code	Name	From	To	Est Length (in Meters, from Marplot)	Main shoreline cleanup recommendation	Multiple	Current Status	Date of initial assess ment	Date of final assess ment	Date begin treatm ent	Date end treatm ent	Date accept ed by SCAT	LSP signoff for IRA actions
B3 (formerly C8)	Tosco terminal bulkhead	Downstream end of tight TOSCO granite seawall	Tide slide downstream of Chelsea St. Bridge at clear change in amount of oiling	370	Pressure wash		Recommendation						
C1	Beyond vsl stern - Angular boulders & pilings	Final Chelsea "B" sheetpile (slightly leaning toward water)	Corner of angular riprap upstream of Walton's/Carbone Sheet metal cove (piling field)	358	Snare		Recommendation						
C2	Walton's/Carbone Sheet Metal piling field, piers with active and derelict houseboats	Corner of angular riprap upstream of Walton's/Carbone Sheet metal cove (piling field)	Coastal Oil chain link fence				Recommendation						
C2-1	East fucus covered riprap			124	Deluge		Recommendation						
C2-2	Back of cove by Marginal St.			150	Manual removal		Recommendation						
C2-3	Area in and among piers and derelict vessels			63	Monitor (unsafe conditions)		Recommendation						
C2-4	Semi-open area next to Coastal property			85	Manual removal		Recommendation						
C3	Coastal Terminal with pilings	Coastal Oil chain link fence	Tide slide for final creek boom (NRC OilStop for a time)	316	Pressure wash (spot application)		Recommendation						
C4	Old Hess terminal bulkhead	Beginning of sheet pile	End of sheet pile on upstream side at beginning of slab riprap	269	Pressure wash		Recommendation						
C5	Concrete Slab Riprap, pebble beach, landfill wooden barges	Upstream end of old Hess sheet pile	Granite block seawall of park				Recommendation						
C5-1	Slab section			64	Multiple	Debris removal, pressure wash	Recommendation						
C5-2	Heavy oiled cobble corner			125	Manual removal		Recommendation						
C5-3	Less oiled stretch			155	Manual removal (spot application)		Recommendation						
C5-4	Wood barge landfill			97	Monitor		Recommendation						
C6	"Park" with wood bulkhead	Granite block seawall of park	Upstream end of wooden bulkhead at stream face of park				Recommendation						
C6-1	Granite western face			67	Snare		Recommendation						
C6-2	Wood river face			84	Manual removal		Recommendation						
C7	Gravel beach below Tosco	Beginning of Granite blocks at upstream side face of park	Downstream end of tight granite TOSCO seawall				Recommendation						
C7-1	Granite eastern face			50	Pressure wash		Recommendation						
C7-2	More oiled corner			45	Manual removal		Recommendation						
C7-3	Less oiled stretch			125	Manual removal (spot application)		Recommendation						
C7-4	Slabs and rebar by creek			67	Monitor (unsafe conditions)		Recommendation						
C7-5	Corner to granite TOSCO pier			93	Multiple	Pressure, manual removal	Recommendation						
H1	"Harbor" Salt Terminal	End of Coastal Terminal (upstream of deck barge)	Mcardle Bridge	272	Multiple	Pressure wash metal and wood west seawall, Snare eastern metal & wood seawall	Recommendation						
H2	Opposite salt term - Marinas	Mcardle bridge	Downstream outer corner of Former Hess sheet pile (tide slide for final boom)	523	Monitor		Recommendation						

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 16 June, 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	MA DEP
Karen Pernell	ITOPF
Stephen Applebaum	Clean Harbors (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER **A1** **SUBSEGMENT LETTER** _____

ZONE NAME: Brick MWRA Pumphouse with granite/concrete base with rockweed.

Comments on Area:

100m length of a vertical concrete seawall/bulkhead. 1.5-2m oiled band from highwater line down. Rockweed present. Boat Access Only.

CLEANUP RECOMMENDED:

Pressure wash hightide band onto water when rockweed is covered. Do not wash vegetation.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A2 **SUBSEGMENT LETTER** 1

ZONE NAME: Cobble over mixed sand and gravel beach from MWRA Pumphouse to Billboard at Bellesteel

Comments on Area

40 M long oiled debris area (large debris) from MRWA pumphouse edge to east. Debris tapers off at 40 m to billboard. Oil band 4m wide at west to <1m at billboard (a2/a3 boundary). Oil is in 50% stain and coat, with pooled oil at base of riprap blocks.

CLEANUP RECOMMENDED

1. Complete manual removal of oiled debris in and around riprap.
2. Large oiled debris and debris may be surgically pressure washed at high tide to remove large patches of surface oil. [This is a difficult area due to mixture of debris and riprap. Any pressure washing needs to be balanced against the danger of reoiling/forcing oil into deeper pockets and/or exposing historic subsurface contamination found at this site.]

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A3 **SUBSEGMENT LETTER** 1

ZONE NAME: Cobble and pebble over mixed sand and gravel shoreline backed by boulder riprap (protecting inactive railroad) from Bellesteel billboard to “Janet House” (concrete block pumphouse on outcrop).

Comments on Area

250m long with less than 1m band of oil on riprap bank. Oiling is a 60% stain and coat with minimal pooling below boulder faces. Trace stain found on cobbles below riprap. Fucus in area of outfall in middle of segment, with heavier oiling of boulders in this vicinity. Heaviest oiling found on boulders near outfall and in corner and side face of outcrop with building.

CLEANUP RECOMMENDED

3. Remove oiled debris/wrack.
4. Selectively pressure wash boulders and riprap based on oiling condition at high tide. In area of outfall, ensure sufficient tide water to limit any impacts on extensive rockweed in area.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A4 **SUBSEGMENT LETTER: 1**

ZONE NAME: Cobble beach east of "Janet's pumphouse" to buoy 6 outcrop.

Comments on Area

Very similar to A3. 225 m riprap-backed bank faced by cobble/pebble covering mixed sand and gravel shoreline. Near "Janet's pumphouse" to wood outfall, 1m wide band with 60% coat with trace oiling below band on riprap. Oiling on west side of wood pilings. East of wood outfall, oiling in 1m wide stain in 20% coat increasing to 2m wide 60% coat at next outcrop and side face of outcrop.

CLEANUP RECOMMENDED

5. Similar approach to A3.
6. Selectively pressure wash boulders and riprap based on oiling condition at high tide.
7. Wood pilings at outfall may be candidates for snare, but not pressure wash.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 15th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A5 **SUBSEGMENT LETTER**

Comments on Area

From eastern outcrop at buoy (~6?) to corner at Hertz peninsula to river. Oiled riprap 1.5m along 300m. Heaviest oiling in easternmost corner at Hertz peninsula, as well as discrete patch on east face of buoy 6 outcrop.

CLEANUP RECOMMENDED

8. Similar to A3 & A4
9. Selectively pressure wash boulders and riprap based on oiling condition at high tide.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

**DATE: 15th
June 2000**

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER __A6__ **SUBSEGMENT LETTER** __1__

Comments on Area

From corner to boulder (9m x 100m). Surface oiled, clay oil flocculation under boulder & cobbles.

CLEANUP RECOMMENDED

10. Mechanical agitation of larger cobbles & boulders in water on a rising tide with containment & collection. (reasonable agitation e.g. rakes, not machine)

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 15th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A6 **SUBSEGMENT LETTER** 2 & 3

Comments on Area

From group of oiled boulders to pilings (160m x ~ 1.5 – 6m) in two distinct bands (west side of Hertz outcrop)..

CLEANUP RECOMMENDED

11. Pressure wash only very large boulders (about 5 – 6 over 1m size) boulders into water.
12. Remove and replace upper band – no concern about vegetation.
13. Agitation on a rising tide in lower band (rakes / shovels) with containment & recovery.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

**DATE: 15th
June 2000**

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A6 **SUBSEGMENT LETTER** 4

Comments on Area

Entire set of pilings along west shore of Hertz outcrop (115m x 14m wide).
Upper 6m band with trace, lower 8m band has 11-50% oil, larger cobble, boulder cover oiled pilings. Some active sheening in vicinity

CLEANUP RECOMMENDED

14. Curtain area with snare, concentrated in first western piling section with the heaviest oiling, use hard or sorbent boom as necessary to capture sheens emanating from site [this is a difficult site with large grain size (cobbles and boulders) and safety issues presented by numerous pilings].

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 15th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER __A6__ **SUBSEGMENT LETTER** __5__

Comments on Area

Hertz outcrop beyond pilings to east to corner at freshwater creek. Minimal oiling (trace).

CLEANUP RECOMMENDED

15. No action recommended other than look for oiled debris or loose snare/clean-up material.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name

Organization

Scott Lundgren

USCG

Kingsley Ndi

State of Massachusetts

Karen Purnell

ITOPF

Stephen Applebaum

Clean Harbours (LSP rep.)

Andrew Martin

POLARIS

B: ZONE NUMBER A7

SUBSEGMENT LETTER 1

Comments on Area

150 M section of riprap from Irving pier product pipes to second Global pier (upstream) with marsh grass on shore below riprap in upstream section. Oiling mainly limited to riprap in 10-50% 1 M wide coat with occasional cover. Matted debris stuck and weighing down marsh grasses, but roots not or only slightly oiled. Good access via unfenced way beyond Global and before Thrifty on Rt 1A south.

CLEANUP RECOMMENDED

16. Gently remove matted oiled debris on marsh grass (using pitchfork or other like tool). DO NOT WALK IN MARSH GRASS (oiled or unoiled).
17. Pressure wash bulkhead onto water (hot if necessary) and contain and recover. Take particular care to capture oil in vicinity of marsh grass and to ensure a water buffer protects at least marsh roots when washing.
18. Resort to lower temperature or pressure near marsh grass, or stop washing, if it appears that washing may impact marsh grass.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name

Organization

Scott Lundgren

USCG

Kingsley Ndi

State of Massachusetts

Karen Purnell

ITOPF

Stephen Applebaum

Clean Harbours (LSP rep.)

Andrew Martin

POLARIS

B: ZONE NUMBER A7

SUBSEGMENT LETTER 2

Comments on Area

200 M section of riprap from Irving pipes to corner with stream at Hertz outcrop. Riprap is of varied sizes from pebbles to large granite slabs. Riprap is backed by inactive railroad track. Oiling is 10cm 80% tar coat.

CLEANUP RECOMMENDED

19. Visit subsection 2 when pressure washing subsection 1 underneath Global and Irving piers. assess need for amount of pressure washing (if any) in this less oiled section to stream in corner.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE: 17th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A8, A9, A10, A11, A'

ZONE NAME: Everything upstream of easternmost Global pier and wooden bulkhead at Forbes.

Comments on Area

Entire area consists of fringing and larger saltmarsh not or only minimally affected by oil. Patches of oil (including one measuring 4m x 5m above final Global pier observed, but not worth addressing due to soft sediments and sensitive marsh grass.

CLEANUP RECOMMENDED

20. No action currently recommended, staining and small patch of oil better allowed to naturally degrade.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A12 **SUBSEGMENT LETTER**

ZONE NAME: Entire length of wooden bulkhead (and collapsing bulkhead) in front of Forbes parking lot

Comments on Area

Westernmost 65 m of bulkhead collapsing, with brick and glass fill behind and spilling over missing/falling wooden bulkhead. 288 m of intact bulkhead at eastern end. Wooden bulkhead oiled in 1.5 m band. Heavier concentration of oil in cobble below bulkhead at eastern end where diversion boom was attached (approx. 10m x 2m).

CLEANUP RECOMMENDED

21. Snare tied off along bulkhead to absorb and physically abrade oiled wood. Over time, ensure snare is tied off such that it will work on both oiled pilings and planks.
22. Remove discrete 10m x 2m triangle of oil in cobble at eastern corner where diversion boom contained pocket of oil. Remove small amounts of cobble beyond bulkhead where necessary, but not right up to salt marsh grass

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name

Organization

Scott Lundgren

USCG

Kingsley Ndi

State of Massachusetts

Karen Purnell

ITOPF

Stephen Applebaum

Clean Harbours (LSP rep.)

Andrew Martin

POLARIS

B: ZONE NUMBER A13 **SUBSEGMENT LETTER** 1

Comments on Area

Oiled cobble shoreline downstream of collapsing Forbes landfill/wood bulkhead extending downstream to oiled marsh. Area forming asphalt pavement already removed manually.

CLEANUP RECOMMENDED

23. Monitor sheening from post-removal area.
24. SCAT (including LSP and Ndi) to assess if any surgical removal of oiled clay substrate is necessary before cobble replacement.
25. Ensure flat rake agitation of heavily trampled area (in vicinity of hole in fence) to loosen hard-packed surface before cobble replacement.
26. Replace cobble.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
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CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A13 **SUBSEGMENT LETTER** 2

Comments on Area

Heavily oiled marsh in 11m x 75m band, already being addressed with staked snares.

CLEANUP RECOMMENDED

27. Continue snare on stakes, minimize monitoring so that walking on marsh is only done when snare needs replacing.
28. When checking/changing snare, minimize walking on unoiled marsh and walk on wood sufficiently wide and long to disperse weight of workers.
29. Control sheening with sorbents/hard boom as necessary.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A13 **SUBSEGMENT LETTER** 3

Comments on Area

75m length by 20m width lightly oiled marsh vegetation on west end of A13. No actions taken thus far, other than possibly debris removal at upper fringe.

CLEANUP RECOMMENDED

30. None. Prevent access/trampling to allow natural recovery.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A14 & A15 **SUBSEGMENT LETTER** _____

ZONE NAME: From Railroad signal at A13 break (P56-1) to next point (has light on pole facing water).

Comments on Area

Very light and patchy oiling along the length of segment (A14 is 350m, A15 is 530m) with occasional patches in sediment. Most oil contained in light wrack and debris. Marsh grass at middle of segment A14 only minimally stained and does not warrant action. Higher concentration in portion of segment backed by Gulf tank farm.

CLEANUP RECOMMENDED

31. Small crew (i.e. 2 people) with bags and several sorbent pads should walk shoreline to locate and pick up patches of oiled wrack and debris, occasional sediment patches (bring one shovel only – 1 patch less than 1 sq. m, occasional others smaller), etc. Use sorbent pads to address any significant patches on boulders.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A16 **SUBSEGMENT LETTER** _____

ZONE NAME: Gulf pier face – sheet pile wall, with secondary concrete in I-beam seawall in front of sheet metal in eastern half.

Comments on Area

Sheet pile easy to clean, except in area faced with concrete and I-beam wall, leaving 1 m space that has been oiled.

CLEANUP RECOMMENDED

32. Pressure wash face of steel sheet pile, concrete secondary wall, and as safe and appropriate in between concrete and steel faces.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A17 **SUBSEGMENT LETTER** _____

ZONE NAME: Pocket of oiling behind Gulf Pier face

Comments on Area

Continue cleanup as currently underway (i.e. pressure washing, snare)

CLEANUP RECOMMENDED

33. No action currently recommended

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A18 **SUBSEGMENT LETTER** _____

ZONE NAME: Wood bulkhead with riprap above west of Gulf pier below Gulf tankfarm.

Comments on Area

Wait until a visit for recommendation

CLEANUP RECOMMENDED

- 34. Monitor area for sheen and use snare and sorbents to control as needed.
- 35. Site requires specific evaluation by LSP and SOSC and discussion with SCAT to determine extent of immediate actions.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 18 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER A19 **SUBSEGMENT LETTER** _____

ZONE NAME:

Comments on Area

Massport parking facility with shelved concrete wall. One-third meter band of oiling on vertical concrete face heaviest at eastern corner, decreasing in concentration to west.

CLEANUP RECOMMENDED

36. Pressure wash onto water, concentrating on heavy areas near eastern corner. Spot check other areas of concrete, minimal work on pilings if warranted.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER B1 **SUBSEGMENT LETTER** _____

ZONE NAME: Under Chelsea Street Bridge

Comments on Area

Variety of granite bridge footings, fendering pilings, old railroad bridge pilings, etc. in Chelsea Street Bridge area on both sides of river.

CLEANUP RECOMMENDED

37. Pressure wash heavier patches and accessible/contact faces of bridge (i.e. fendering system).
Use discretion that balances level of oiling versus accessibility and safety of areas within fendering system.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 17 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi/Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum/Kris Gilson	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER B2 **SUBSEGMENT LETTER** _____

ZONE NAME: Sheet pile and loose riprap area across from TOSCO terminal.

Comments on Area

Below Harborwalk downstream of Chelsea St. Bridge, consisting of small segments of sheet pile with larger area of loose riprap. Rockweed on loose riprap. Heavy oiling to be better defined at later SCAT by boat.

CLEANUP RECOMMENDED

38. Continue pressure wash on sheet pile.
39. Continue snare operations on riprap.
40. SCAT team to reassess site and discuss with zone manager the best method to balance removal of significant oil against possible penetration and rockweed destruction.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 18 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER B3 **SUBSEGMENT LETTER** _____

ZONE NAME: Tosco

Comments on Area

Tosco Wall

CLEANUP RECOMMENDED

41. Continue with pressure washing operations

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 18 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C1 **SUBSEGMENT LETTER** _____

ZONE NAME:

Comments on Area

Loose angular riprap with focus, fronted by pilings on western side of area near C2. Oiling sporadic.

CLEANUP RECOMMENDED

42. Use snare where appropriate. Evaluate deluge tested in C2-1 for use in western portions of C-1 if needed.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C2 **SUBSEGMENT LETTER** 1

Comments on Area

Easter side is 125M in length from river corner of sloping riprap to the inshore corner at Marginal Street guardrail and small cement building. 75% rockweed cover and 60% oiling coast and cover in rockweed. 10m wide oil band on concrete, boulder, and rockweed. Additional pooled oil where trapped by some large pilings/timbers needs to be addressed.

Access to site is poor... through fence from parking lot above (Cabot?), from sidewalk (no parking) from back at Marginal St. Limited from water (small tin boats) because of extensive pilings throughout cove.

CLEANUP RECOMMENDED

43. At high tide: Pressure wash patches of oil under concrete overhang at top of riprap below fence into containment for removal.
44. On falling tide, trial of deluge with ambient water using trash pump and perforated pipe (or similar) to flush oiled rockweed along outer part of subsection with containment and removal, which may be useful over a period of many tide cycles (please alert SCAT to planned use of this test).
45. Manual removal of discrete oil pools where it has collected by timbers or other collection points with some limited rockweed removal in heavily oiled patches where it only covers a small portion of the pooled/asphalt area. A SCAT walk through with site foreman/zone manager would help identify the appropriate cleanup locations.
46. Occasional patches throughout zone may warrant manual removal/padding.
47. Sufficient snare to capture multiple sheen sources in this zone (pilings, etc.)

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C2 **SUBSEGMENT LETTER** 2

Comments on Area

Back end of piling filled cove below Marginal St. extends about 150m from cement building at east end to rotting vessel hulks at west end. Oiling at high tide line may be a mix of older and fresh heavy oil, but is contaminated with fresh and needs to be removed along with oil debris. Significant pooling at east corner (into sediments) as well as among pilings in accumulation areas. Less oil at west end of zone.

CLEANUP RECOMMENDED

48. Rake up and remove discrete asphalt band at high tide line removing minimal sediment to preclude need for replacement (mainly surficial).
49. Pooled oil at eastern corner will require sediment removal to extent of fresh oiling.
50. Manual removal of discrete patches (2 large ones observed, one along eastern riprap wall, another near inner eastern corner) accumulated under timbers. Discussion and site visit by SCAT and zone manager/foreman may be appropriate to identify key areas and any safety concerns.
51. No removal west of deep slip, unless safety issues specifically considered.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name

Organization

Scott Lundgren

USCG

Kingsley Ndi

State of Massachusetts

Karen Purnell

ITOPF

Stephen Applebaum

Clean Harbours (LSP rep.)

Andrew Martin

POLARIS

B: ZONE NUMBER C2 **SUBSEGMENT LETTER** 3

Comments on Area

63 M of shore underneath extensive deteriorating piers, miscellaneous debris, etc. Safety concerns do not warrant removal of minimal oiling on sediment. Oil on pilings should be left for safety reasons. 3m oiling of piling supporting the piers, heavy enough to sheen. Surface oiling of floating dock where surface was under water at one time.

CLEANUP RECOMMENDED

52. Control with sorbent outside safety hazard area as needed.

53. Revisit site with safety and operations individuals to better determine approach to challenging area.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE:

16 June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C2 **SUBSEGMENT LETTER** 4

Comments on Area

85 M of heavily oiled sand and gravel (no additional details on oiling – visual only). Penetration estimated from 1-5 cm. Safety issues mainly restricted to eastern edge of small area. Assess ability to manually remove from water-side. No adequate land-side access.

CLEANUP RECOMMENDED

- 54. Assess ability to conduct sediment/asphalt removal safely following water-side access.
- 55. Where (and if) safe, conduct manual removal of sediment and debris.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 16 June, 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	MA DEP
Karen Pernell	ITOPF
Stephen Applebaum	Clean Harbors (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C3 **SUBSEGMENT LETTER** 1

Comments on Area:

Eastern/upstream riprap Area of Coastal Oil Terminal. 75 m of riprap coated in a 3 m band.
Some rockweed present, therefore ensure water buffer to prevent pressure and heat impacts.

CLEANUP RECOMMENDED:

Pressure wash with ambient water (hot if necessary) onto high tide water, containing and recovering removed oil. Where rockweed present, do not wash without water covering rockweed.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 16 June, 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	MA DEP
Karen Pernell	ITOPF
Stephen Applebaum	Clean Harbors (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C3 **SUBSEGMENT LETTER** 2

Comments on Area:

Sheetpile area of Coastal Oil Terminal, downstream/west of riprap. 200 m of riprap coated in a 3 m band, decreasing to the west and significantly less beyond the pier loading rack. Rockweed potentially present, therefore ensure water buffer where present to prevent pressure and heat impacts.

CLEANUP RECOMMENDED:

Pressure wash with ambient water (hot if necessary) onto water, containing and recovering removed oil. If rockweed is present, do not wash without water covering rockweed. Focus on areas east of pier loading rack, spot check and remove any pockets present in less oiled western section.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 16 June, 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	MA DEP
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbors (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C4 **SUBSEGMENT LETTER** 1

Comments on Area:

Sheetpile area of Old Hess Terminal, 200 m from boom tide slide corner to eastern beginning of slab riprap along side. 3 meter band of oil coat.

CLEANUP RECOMMENDED:

Pressure wash (hot if necessary) as needed onto water, containing and recovering removed oil. Spot check and remove any pockets beyond boom tide slide at western end.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 13th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C5 **SUBSEGMENT LETTER** 1

Comments on Area

Concrete slab bulkhead area (stacked or tumbled) along old Hess terminal (~60m long).

CLEANUP RECOMMENDED

1. Remove oiled debris under tumbled slabs (leave oiled rockweed).
2. Pressure wash (hot if needed) at high tide band into water (truck access through Hess property)
3. High pressure ambient wash of tumbled slabs, avoiding rockweed (especially unoiled rockweed)

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

DATE: 15th

June 2000

A. INSPECTION TEAM:

Name

Organization

Scott Lundgren

USCG

Kingsley Ndi

State of Massachusetts

Karen Purnell

ITOPF

Stephen Applebaum

Clean Harbours (LSP rep.)

Andrew Martin

POLARIS

B: ZONE NUMBER C5 **SUBSEGMENT LETTER** 2

Comments on Area

125m x 8m oiled cobble from slab/shoreline boundary to wrecked car/boulders. Some riprap & slabs in this area.

CLEANUP RECOMMENDED

1. Pressure wash (hot if necessary) riprap & slabs that are oiled
2. Manual removal of 8m x 125m oiled cobble & pebble (concern with both subsurface contamination and access for mechanical options)
3. If preferred, trials of in-situ washing on beach or in container may be carried out.
4. Assess need to remove pockets of oiled sediment pockets beyond wrecked car/boulder.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 15th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C5 **SUBSEGMENT LETTER** 3

Comments on Area

Less oiled substrate beyond car, similar to C5-2

CLEANUP RECOMMENDED

1. Use judgement / LSP input to remove pockets of heavier potentially asphalt forming areas.
2. SCAT team visit/talk with zone manager about any additional removal that may be necessary.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 15th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C5 **SUBSEGMENT LETTER** 4

Comments on Area

Wooden barges by park to granite block seawall of Condor Street park.

CLEANUP RECOMMENDED

56. No immediate action. No action on shoreline face.
57. Revisit river face to see if any removal is warranted (i.e selective manual removal).

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

DATE: 16 June, 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	MA DEP
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbors (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C6 **SUBSEGMENT LETTER** 1

Comments on Area:

Granite riprap western wall of Condor street park, from wooden land fill barge/creek to river corner. About 50m long, 0.5m discontinuous 51-90% stains to coats. 75% rockweed cover, oiling of rockweed unknown due to inaccessibility to foot traffic.

CLEANUP RECOMMENDED:

Use of snare to wash rockweed and granite as initial response. Monitor for possible use of pressure washing if sorbent ineffective.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 16 June, 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	MA DEP
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbors (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C6 **SUBSEGMENT LETTER** 2

Comments on Area:

80 M long deteriorating wood seawall with riprap and eroding gravel shore behind. Mixed substrate shoreline.

CLEANUP RECOMMENDED:

Manual removal of two patches of oil cover (developing asphalt in East). If wood bulkhead sheening, use of snare to control & remove oil.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 13th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER __C7__ **SUBSEGMENT LETTER** ____1__

Comments on Area

Granite block wall at eastern end of park (50m x 1.5m) band.
20% oiled fucus distribution

CLEANUP RECOMMENDED

4. High pressure ambient (hot if needed) in upper band where no fucus.
5. Moderate pressure, ambient pressure washing where fucus is present

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 13th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Andrew Martin	POLARIS
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)

B: ZONE NUMBER C7 **SUBSEGMENT LETTER** 2

Comments on Area

Cobble / pebble pocket shoreline 45m.
7 x 45 m oiling @ 50% coat, ~ 4cm penetration.
Access through park but not to the beach

CLEANUP RECOMMENDED

6. Manual removal of asphalt forming surface
pebble/cobbles. Take care not to expose sub-surface
contamination.
7. Replace with similar pebbles/cobbles

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 13th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C7 **SUBSEGMENT LETTER** 3

Comments on Area

110m decreasing oiling to east on cobble, bolder shore (stains and coats)
7m band

CLEANUP RECOMMENDED

8. Selective removal of pockets/area that will form tar pavements or act as a source of sheen . Judgement/LSP input.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill

LOCATION: Chelsea Creek, MA

CLEANUP RECOMMENDATION REPORT

**DATE: 13th
June 2000**

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER C7 **SUBSEGMENT LETTER** 4

Comments on Area

Tumble down rip rap (concrete & rebar) 50m from stream to end. 10cm broken stain. Fucus present, unoiled.

CLEANUP RECOMMENDED

9. No action recommended – safety issue versus minimal oiling

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 13th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Kingsley Ndi	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER __C7__ **SUBSEGMENT LETTER** __5__

Comments on Area

Segment extends from corner near small wooden dock and extends to beginning of tight granite TOSCO pier. Various riprap substrates, heavily oiled in 8M 50-90% band of cover.

CLEANUP RECOMMENDED

10. Some hot, high pressure and some sediment removal as appropriate for oiling following decon activities in area.

D: OTHER COMMENTS

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 18th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER H1 **SUBSEGMENT LETTER**

Comments on Area

Salt pile pier. Two oiled areas approximately 10m x 3m each of sheetpile and wood seawall.

CLEANUP RECOMMENDED

Hot wash western sheet pile and horizontal telephone-pole seawall. Snare eastern oiled sheetpile and deteriorating wood seawall.

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.

INCIDENT NAME: POSAVINA Oil Spill LOCATION: Chelsea Creek, MA
--

CLEANUP RECOMMENDATION REPORT

DATE: 18th
June 2000

A. INSPECTION TEAM:

Name	Organization
Scott Lundgren	USCG
Tim Boyle	State of Massachusetts
Karen Purnell	ITOPF
Stephen Applebaum	Clean Harbours (LSP rep.)
Andrew Martin	POLARIS

B: ZONE NUMBER H2 **SUBSEGMENT LETTER**

Comments on Area

Quarterdeck Marina and Cashman yard

CLEANUP RECOMMENDED

1. Deploy sausage boom from Hess tide slide to Hess dock pilings
Quarterdeck vessels being addressed by other means

D: OTHER COMMENTS Zone Managers should prepare daily reports to UC on progress, problems/issues and intentions for following day.